

# Climate Projections for NASA Ames Research Center

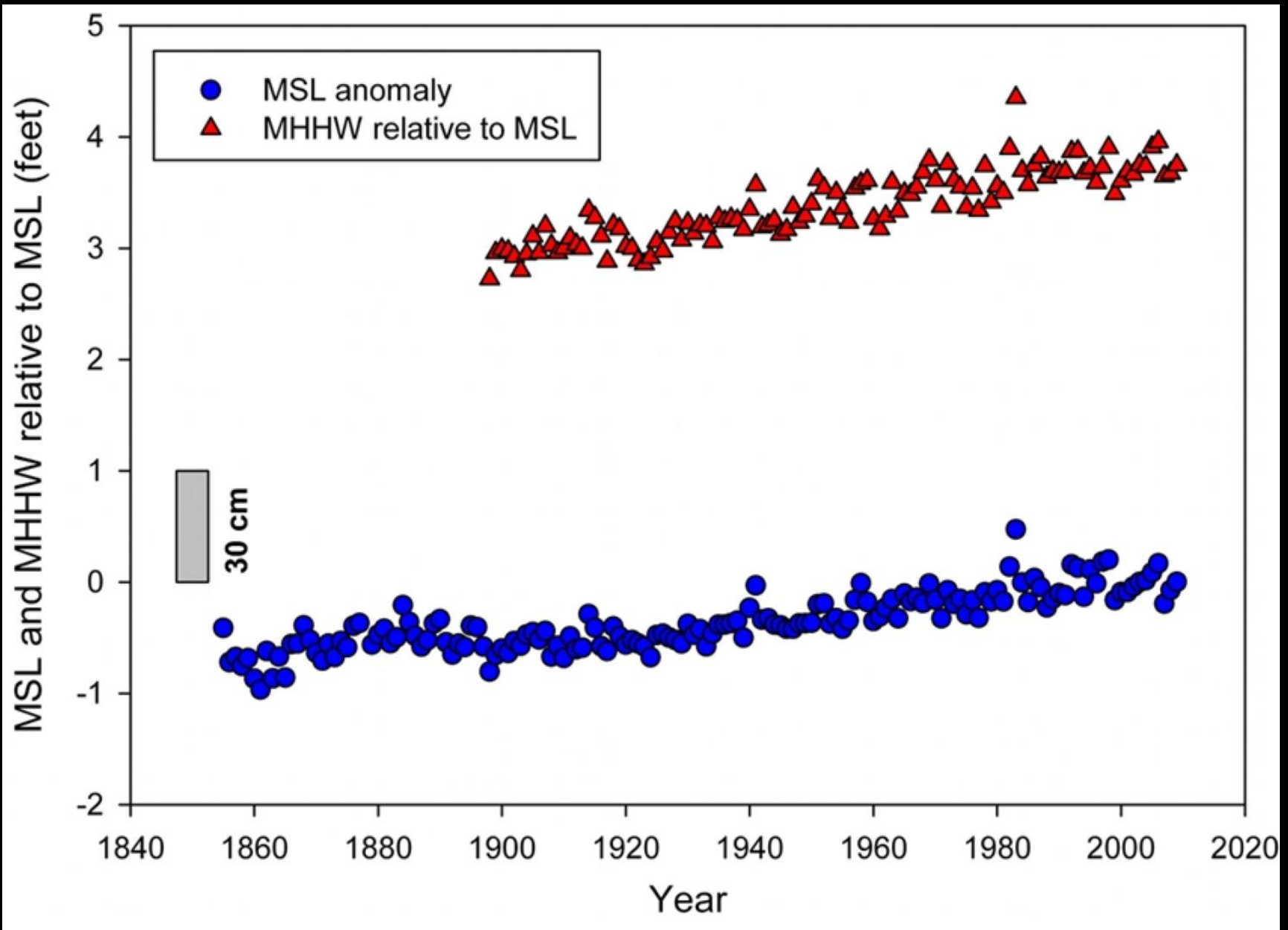
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Daniel Bader (3)

1 NASA Ames Research Center

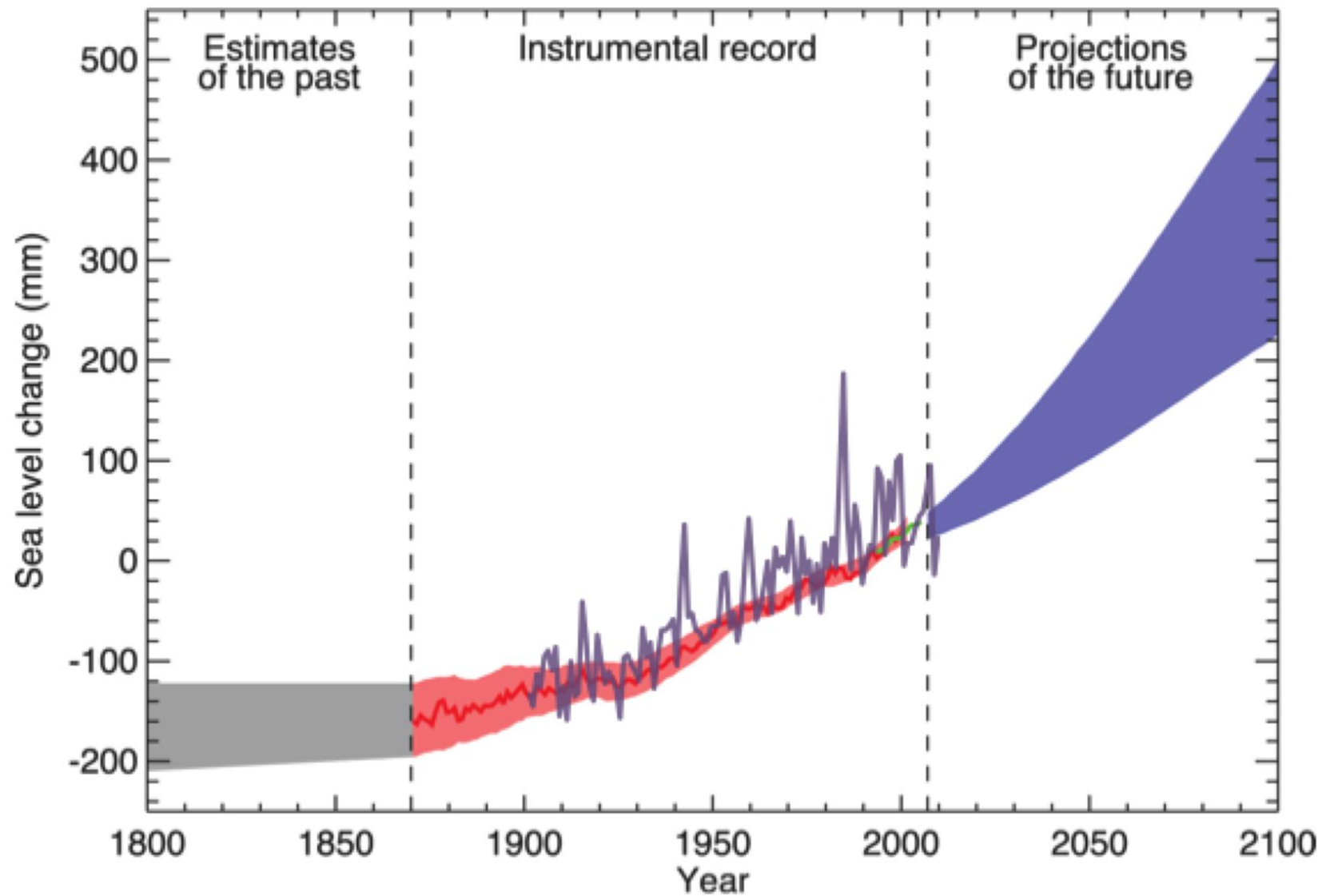
2 CSUMB/NASA Ames Research Center

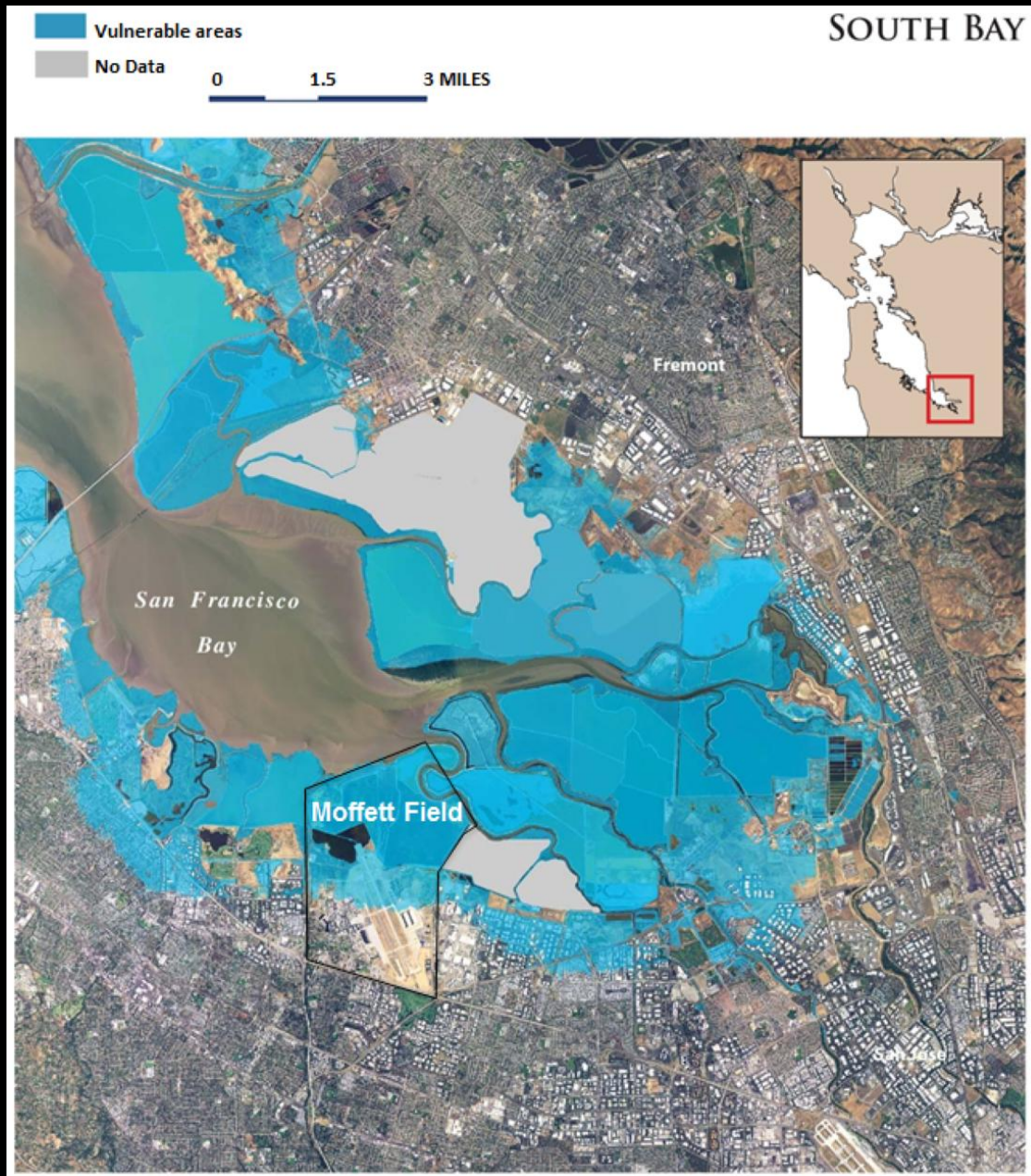
3 Goddard Institute for Space Studies

# Golden Gate tide gauge data 1855-2009



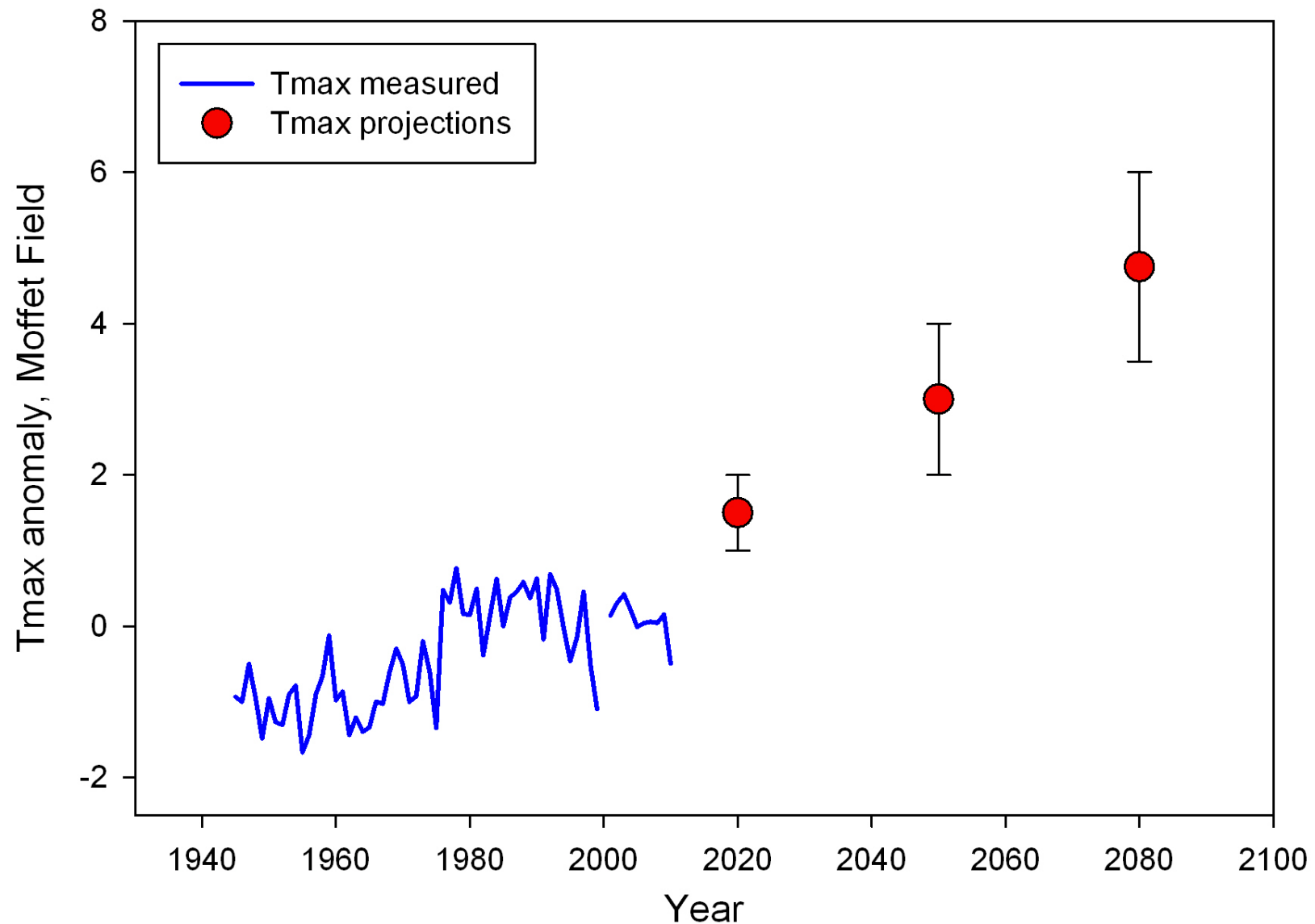
# Global MSL relative to 1980-1999



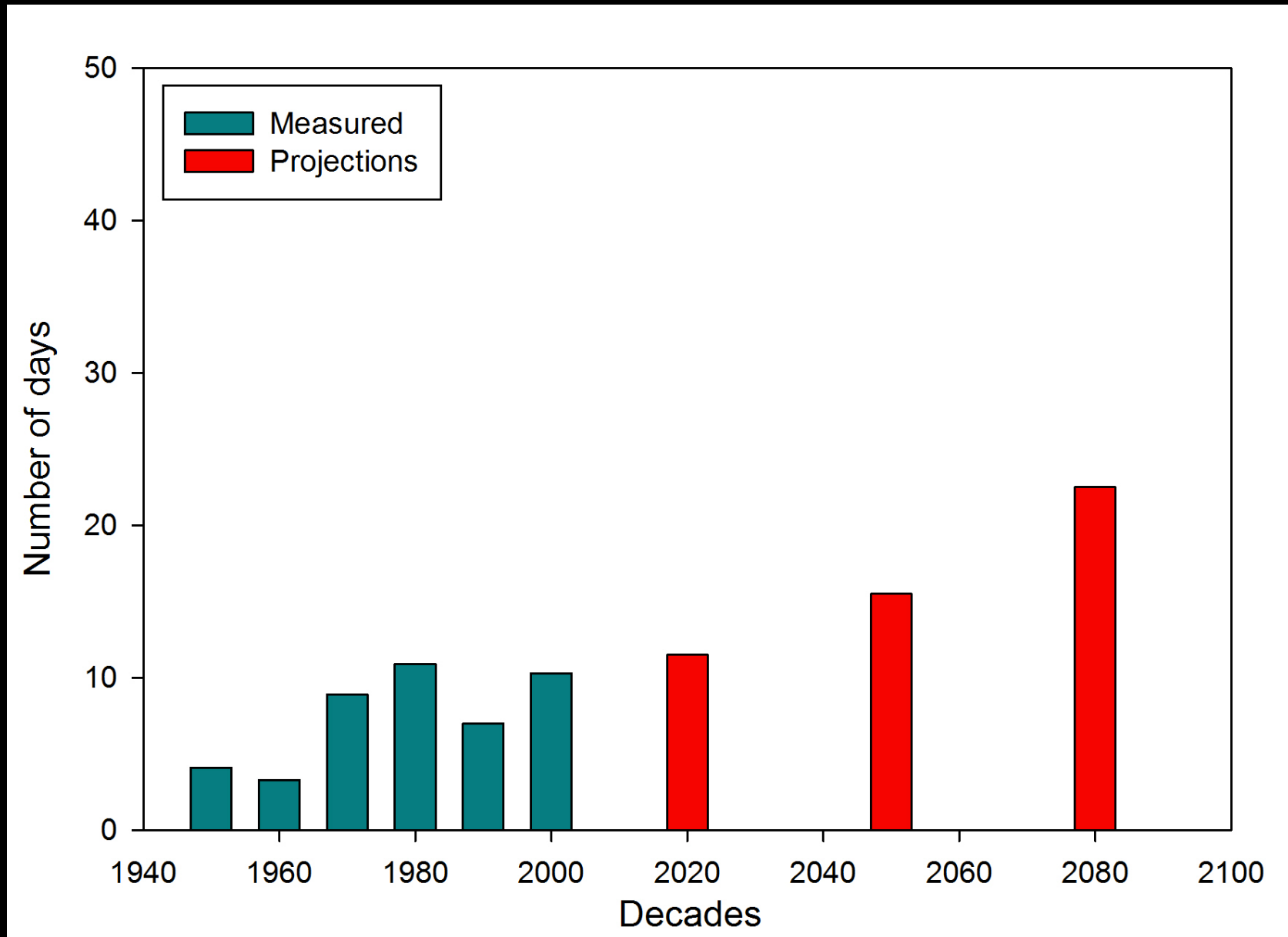


16 inch SLR overlaid  
on SF Bay map

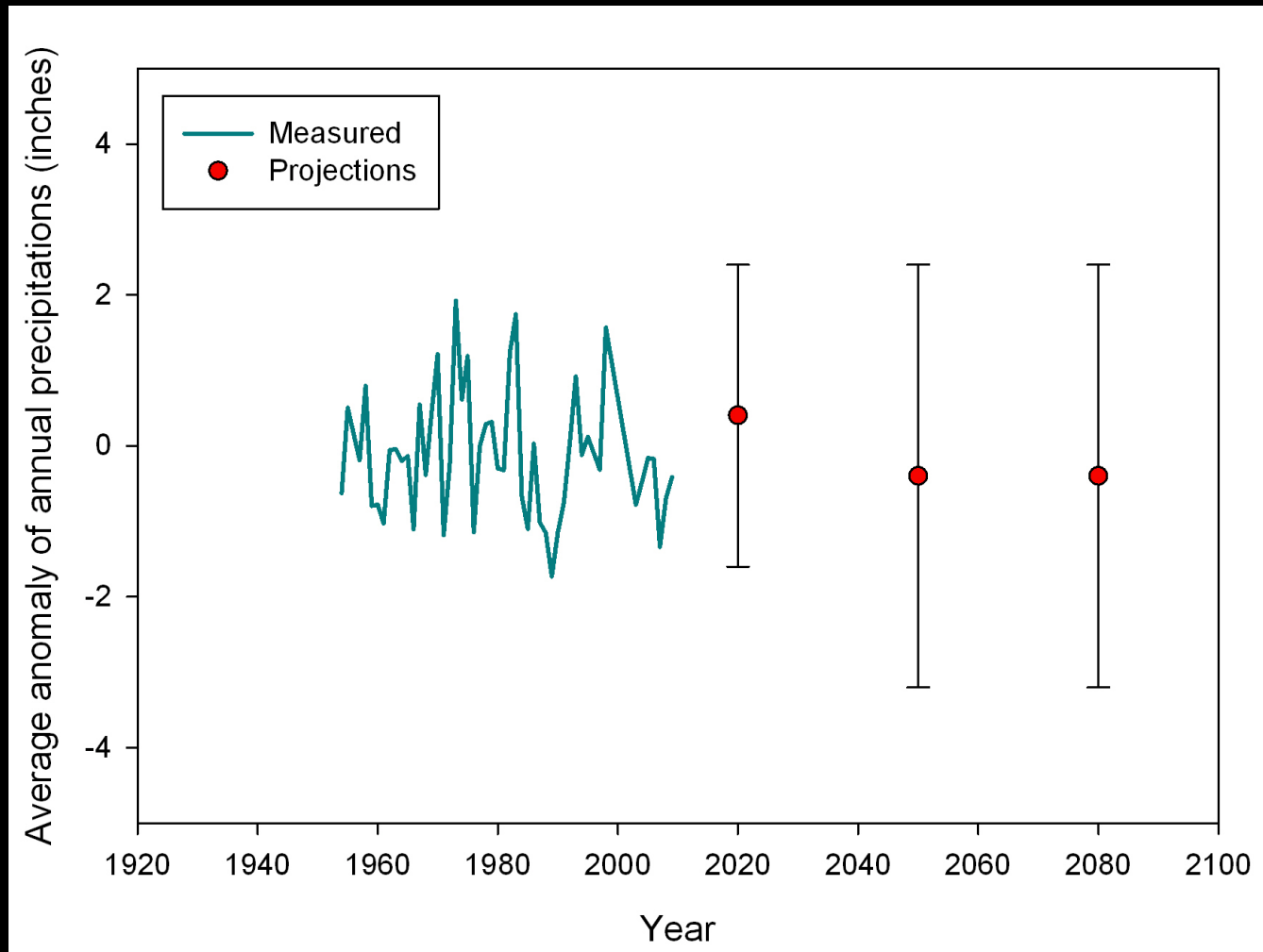
# Annual-maximum-temperature, $T_{\max}$ F, trend: Ames Research Center



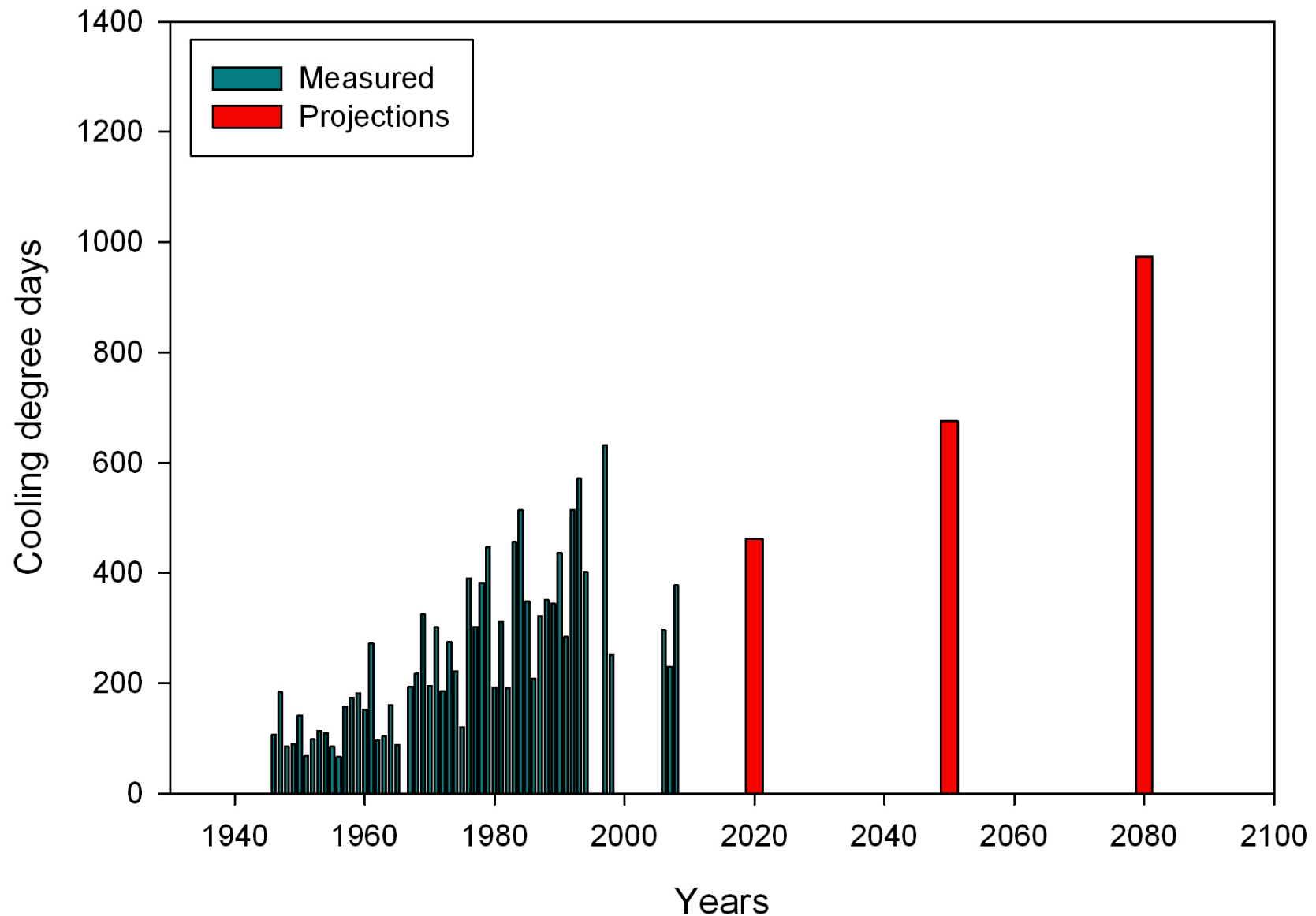
# Annual-number-of-days with Tmax greater than 90 F at ARC



# Historical and projected precipitation: ARC



# Historical and projected cooling-degree-days at ARC





# Summary of climate change projections for Ames Research Center

From an ensemble of 16 GCMs down-scaled to a 12 km local grid we project:

*Increases of annual Tmax, of days with  $T > 90$  F, and of cooling degree days*

From ocean models we project:

*Potentially serious inundation effects toward mid-century*